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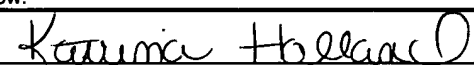
<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)		Application Number	10/510,248
		Filing Date	October 1, 2004
		First Named Inventor	Iain Stewart Dennis
		Art Unit	
		Examiner Name	
Total Number of Pages in This Submission	8	Attorney Docket Number	014875-000001

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Documents <input checked="" type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group ( <i>Appeal Notice, Brief, Reply Brief</i> ) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <b>Copy of Notification of Missing Requirements Under 35 U.S.C. 371 . . . ;</b> <b>Executed Declaration;</b> <b>Check in the amount of \$130.00; and</b> <b>Acknowledgement Postcard</b>
Remarks  		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	MOORE & VAN ALLEN		
Signature			
Printed Name	WILLIAM A. BARRETT		
Date	July 12, 2005	Reg. No.	42,296

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	Katrina Holland	Date	July 12, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <h1 style="text-align: center;">FEE TRANSMITTAL</h1> <h2 style="text-align: center;">For FY 2005</h2>		<b>Complete if Known</b>	
		Application Number	10/510,248
		Filing Date	October 1, 2004
		First Named Inventor	Iain Stewart Dennis
		Examiner Name	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Art Unit	
<b>TOTAL AMOUNT OF PAYMENT</b> (\$ 130.00		Attorney Docket No.	014875-000001

**METHOD OF PAYMENT** (check all that apply)

☒ Check 
 ☐ Credit Card 
 ☐ Money Order 
 ☐ None 
 ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: **13-4365** Deposit Account Name: **Moore & Van Allen PLLC**  
 For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below 
 ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 
 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

**Total Claims** - 20 or HP = \_\_\_\_\_ x **Extra Claims** **Fee (\$)** = **Fee Paid (\$)**  
 HP = highest number of total claims paid for, if greater than 20

**Indep. Claims** - 3 or HP = \_\_\_\_\_ x **Extra Claims** **Fee (\$)** = **Fee Paid (\$)**  
 HP = highest number of independent claims paid for, if greater than 3

**Multiple Dependent Claims**  
**Fee (\$)** **Fee Paid (\$)**

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

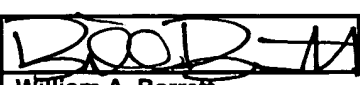
**Total Sheets** - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x **Fee (\$)** = **Fee Paid (\$)**

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other: **Surcharge fee for delayed submission of executed Declaration** **130.00**

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent) <b>42,296</b>	Telephone <b>919/286-8000</b>
Name (Print/Type)	<b>William A. Barrett</b>	Date <b>07/12/2005</b>	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

#4

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Iain Stewart Dennis et al.

Application No.: 10/510,248

Confirmation No.: 6232

Filed: October 1, 2004

Customer No.: 24,239

For: REMOVAL OF BLOCKAGES FROM PIPEWORK

Mail Stop: Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**COMPLETION OF FILING REQUIREMENTS**

1. This replies to the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US) mailed on May 12, 2005.

A copy of the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US) is enclosed.

**DECLARATION OR OATH**

2. No original signed declaration or oath was filed and enclosed is the original signed declaration or oath for this application.

**COMPLETION FEES**

3. Surcharge fees

Late filing of original declaration or oath  
(37 CFR 1.16(e)--\$130.00; small entity--\$65.00); \$ 130.00

**Total Completion Fees** \$ 130.00

4. Payment of Fees

Enclosed is a check for \$ 130.00.

**AUTHORIZATION TO CHARGE DEPOSIT ACCOUNT**

5. The Commissioner is hereby authorized to charge additional fees which may be required by this paper and during the pendency of this application to Deposit Account No. 13-4365.

07/19/2005 GFREY1 00000071 10510248

01 FC:1617

130.00 OP

RECEIVED

14 JUL 2005

orney Docket No.: 014875-000001

July 12, 2005  
(DATE)

WAB  
(SIGNATURE)

Tel No.: (919) 286-8000

William A. Barrett

Reg. No.: 42,296



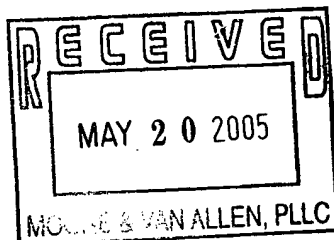
Rec'd PCTO 14 JUL 2005 PCT\$  
**COPY**

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO. 10/510,248	FIRST NAMED APPLICANT Iain Stewart Dennis	ATTY. DOCKET NO. 014875-000001
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Moore & Van Allen  
2200 West Main Street  
Suite 800  
Durham, NC 27705



INTERNATIONAL APPLICATION NO. PCT/GB03/01484	
I.A. FILING DATE 04/07/2003	PRIORITY DATE 04/05/2002

CONFIRMATION NO. 6232  
371 FORMALITIES LETTER



Date Mailed: 05/12/2005

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 10/01/2004
- Copy of the International Search Report filed on 10/01/2004
- Copy of IPE Report filed on 10/01/2004
- Copy of Annexes to the IPER filed on 10/01/2004
- Preliminary Amendments filed on 10/01/2004
- Information Disclosure Statements filed on 10/01/2004
- Oath or Declaration filed on 10/01/2004
- U.S. Basic National Fees filed on 10/01/2004
- Priority Documents filed on 10/01/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- ~~Oath or declaration~~ of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed

to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

DARRELL C COTTMAN

Telephone: (703) 308-9140 EXT 203

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/510,248	PCT/GB03/01484	014875-000001

FORM PCT/DO/EO/905 (371 Formalities Notice)